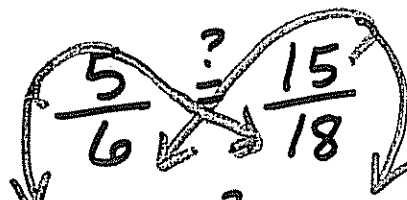


Proportions

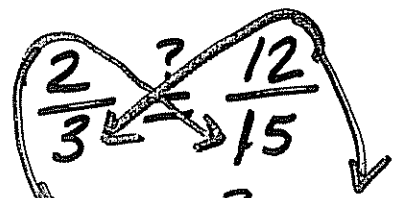
Proportion - 2 equal ratios
- cross products are equal

Multiply num. of each ratio by den. of other ratio to find Cross products.

Ex.


$$\frac{5}{6} = \frac{15}{18}$$
$$5 \cdot 18 = 6 \cdot 15$$
$$90 = 90 \checkmark$$

Cross products equal
 \therefore proportion
(therefore)


$$\frac{2}{3} = \frac{12}{15}$$
$$2 \cdot 15 = 3 \cdot 12$$
$$30 \neq 36$$

Cross products
NOT EQUAL
 \therefore NOT a Proportion

Solve the proportions.

a) $\frac{2}{16} = \frac{7}{8}$

b) $\frac{9}{6} = \frac{36}{4}$

c) $\frac{35}{10} = \frac{t}{2}$